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1. At the July meeting of Department TEE of Funkwerk Koepenick, a progress report on the development of the anti-collision radar device (under the supervision of Rudolf Manthey) made it clear that difficulties with measurement devices are being experienced. The difficulties result from the use of klystrons which are too feeble. It was pointed out that the Werk fuer Fernmeldewesen HF in Oberschoeneweide has thus far not delivered adequate klystrons, and it was decided to contact the HF plant and HV RFT in order to secure supplies of adequate klystrons. A water power meter (Wasserleistungsmesser) was received, but it was discovered that it has an efficiency of only 72 percent. In June and July 1953, experiments were carried out concerning the sealing of the transmitter with a trolitul insulator of 10 mm. wall strength. The results of these experiments were satisfactory. Several cast antenna mirrors were received in late June 1953. It turned out, however, that they had deviations of up to 8 mm. The deviations were caused by deformation. An attempt will be made to repair the mirrors in the TEIG workshop. Furthermore, the casting model will be changed so as to compensate for later deformation. As soon as a corrected mirror is available, the direction diagrams will be measured.

2. In August 1953, Manthey's department received an order to develop in 1954 a radar device to be used as a ground installation and on aircraft. The name of the device is "Zentimeter Ortungsgeraet fuer Flugzeuge" (centimeter location device for aircraft). The order was passed on to Funkwerk Koepenick by the Zentralamt fuer Forschung und Technik (ZAFT). Funds amounting to 325,000 DME were made available in 1954 alone for the development of the device; Development is to begin in January 1954. The order specified that use was to be made of the experience gained in developing the anti-collision device, but that the new device was to be considerably lighter and smaller than the anti-collision device, in view of the plans to use it in aircraft. It was further specified that the new device was to be developed in two versions: (a) as an airborne installation for the purpose of orienting the craft as well as for locating ground targets, and (b) as a ground installation for the purpose of locating approaching aircraft. According to provisional plans, Russian returnee Kunte (fnu), under Manthey's supervision, will be in charge of the development.

1/ [redacted] Comment. The antenna mirror now in use on top of Manthey's tower is not cast; it is made from aluminum sheet. 50X1-HUM

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